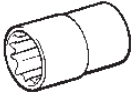

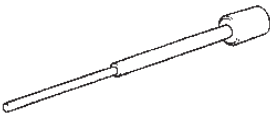
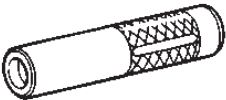
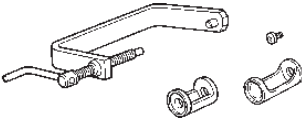
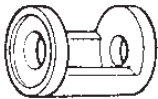
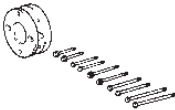










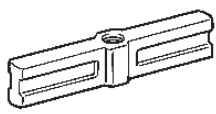
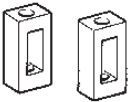
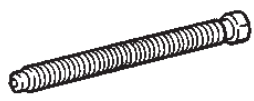
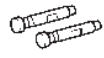
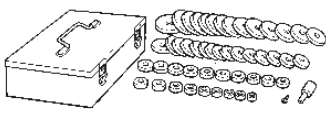

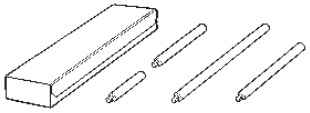


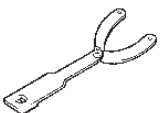
# ENGINE MECHANICAL

## PREPARATION


020JP-01

### SST

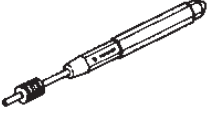
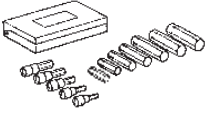

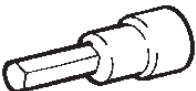

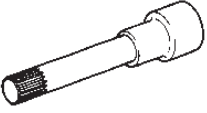
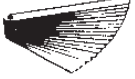
|   |               |  |                             |
|---|---------------|--|-----------------------------|
|    | 09011-38121   | 12 mm Socket Wrench for 12 Pointed Head    | CYLINDER BLOCK(1AZ-FE)      |
|    | 09032-00100   | Oil Pan Seal Cutter                        | PARTIAL ENGINE ASSY(1AZ-FE) |
|    | 09201-01055   | Valve Guide Bushing Remover & Replacer 5.5 | CYLINDER HEAD ASSY(1AZ-FE)  |
|    | 09201-41020   | Valve Stem Oil Seal Replacer               | CYLINDER HEAD ASSY(1AZ-FE)  |
|   | 09202-70020   | Valve Spring Compressor                    | CYLINDER HEAD ASSY(1AZ-FE)  |
|  | (09202-00010) | Attachment                                 | CYLINDER HEAD ASSY(1AZ-FE)  |
|  | 09213-54015   | Crankshaft Pulley Holding Tool             | PARTIAL ENGINE ASSY(1AZ-FE) |
|  | (91651-60855) | Bolt                                       | PARTIAL ENGINE ASSY(1AZ-FE) |
|  | 09223-15030   | Oil Seal & Bearing Replacer                | PARTIAL ENGINE ASSY(1AZ-FE) |
|  | 09228-06501   | Oil Filter Wrench                          | PARTIAL ENGINE ASSY(1AZ-FE) |
|  | 09309-37010   | Transmission Bearing Replacer              | PARTIAL ENGINE ASSY(1AZ-FE) |
|  | 09330-00021   | Companion Flange Holding Tool              | PARTIAL ENGINE ASSY(1AZ-FE) |

|   |  |   |
|---|--|---|
|    | 09950-40011 Puller B Set                   | PARTIAL ENGINE ASSY(1AZ-FE)   |
|    | (09957-04010) Attachment                   | PARTIAL ENGINE ASSY(1AZ-FE)   |
|    | 09950-50013 Puller C Set                   | PARTIAL ENGINE ASSY(1AZ-FE)   |
|    | (09951-05010) Hanger 150                   | PARTIAL ENGINE ASSY(1AZ-FE)   |
|    | (09952-05010) Slide Arm                    | PARTIAL ENGINE ASSY(1AZ-FE)   |
|    | (09953-05020) Center Bolt 150              | PARTIAL ENGINE ASSY(1AZ-FE)   |
|  | (09954-05021) Claw No.2                    | PARTIAL ENGINE ASSY(1AZ-FE)   |
|  | 09950-60010 Replacer Set                   | CYLINDER BLOCK(1AZ-FE)  |
|  | (09951-00200) Replacer 20                  | CYLINDER BLOCK(1AZ-FE)  |
|  | 09950-70010 Handle Set                     | PARTIAL ENGINE ASSY(1AZ-FE)<br>CYLINDER HEAD ASSY(1AZ-FE)<br>CYLINDER BLOCK(1AZ-FE) |
|  | (09951-07100) Handle 100                   | PARTIAL ENGINE ASSY(1AZ-FE)<br>CYLINDER HEAD ASSY(1AZ-FE)<br>CYLINDER BLOCK(1AZ-FE) |
|  | 09960-10010 Variable Pin Wrench Set        | PARTIAL ENGINE ASSY(1AZ-FE)   |
|  | (09962-01000) Variable Pin Wrench Arm Assy | PARTIAL ENGINE ASSY(1AZ-FE)   |

## PREPARATION - ENGINE MECHANICAL

|   |                     |                             |
|---|---------------------|-----------------------------|
|  | (09963-00600) Pin 6 | PARTIAL ENGINE ASSY(1AZ-FE) |
|---|---------------------|-----------------------------|

## Recommended Tools

|   |  |                             |
|---|--|-----------------------------|
|    | 09031-00040 Pin Punch .                | CYLINDER HEAD ASSY(1AZ-FE)  |
|    | 09040-00011 Hexagon Wrench Set         | PARTIAL ENGINE ASSY(1AZ-FE) |
|    | (09043-20080) Socket Hexagon Wrench 8  | PARTIAL ENGINE ASSY(1AZ-FE) |
|    | (09043-20060) Socket Hexagon Wrench 6  | PARTIAL ENGINE ASSY(1AZ-FE) |
|   | (09043-20120) Socket Hexagon Wrench 12 | PARTIAL ENGINE ASSY(1AZ-FE) |
|  | 09043-50100 Bi-hexagon Wrench 10 mm    | PARTIAL ENGINE ASSY(1AZ-FE) |
|  | (09203-00010) Thickness Gauge          | PARTIAL ENGINE ASSY(1AZ-FE) |

## SSM

|  |   |   |
|--|---|---|
|  | 08826-00080 Seal Packing Black or equivalent (FIPG)                     | PARTIAL ENGINE ASSY(1AZ-FE)                           |
|  | 08826-00100 "Seal Packing 1282B," THREE BOND 1282B or equivalent (FIPG) | PARTIAL ENGINE ASSY(1AZ-FE)                           |
|  | 08833-00070 "Adhesive 1324," THREE BOND 1324 or equivalent              | PARTIAL ENGINE ASSY(1AZ-FE)<br>CYLINDER BLOCK(1AZ-FE) |

**Equipment**

|                                   |  |
|-----------------------------------|--|
| Reamer                            |  |
| V-block                           |  |
| Piston ring compressor            |  |
| Piston ring expander              |  |
| Valve seat cutter                 |  |
| Cylinder gauge                    |  |
| Feeler gauge                      |  |
| Micrometer                        |  |
| Precision straight edge           |  |
| Steel square                      |  |
| Torque wrench                     |  |
| Vernier calipers                  |  |
| Dial indicator with magnetic base |  |
| Spring tension gauge              |  |
| Slide calipers                    |  |
| Plastigage                        |  |
| Heater                            |  |